

INVITATION TO BID

Addendum # 1



Department Of Executive Services
Finance and Business Operations Division
Procurement and Contract Services Section
206-684-1681 TTY Relay: 711

Date: **May 3, 2006**

ITB Title:	Excavator, Track Mounted, 36,700 lbs
ITB Number:	IT13068-AAB
Due Date/Time:	May 16, 2006 - 2:00 P.M.
Buyer:	Amon Billups, amon.billups@metrokc.gov , (206)263-4270

This addendum is issued to revise ITB 13068-AAB, advertised April 13, 2006 as follows:

1. Change the bid opening date from May 9, 2006, to Tuesday, May 16, 2006 at 2:00 PM, exactly.
2. Paragraph 4-1, Delivery; change "ninety (90) days" to read **"one hundred twenty (120) days"**
3. Replace Sections 5 and 6 with Sections 5 (Rev.1) and 6 (Rev.1) attached.

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TO BE ELIGIBLE FOR AWARD OF THIS INVITATION TO BID, THIS ADDENDUM MUST BE SIGNED AND SUBMITTED ALONG WITH THE ORIGINAL INVITATION TO BID OR UNDER SEPARATE COVER
TO: King County Procurement & Contract Services Section, Exchange Building, 8th Floor, 821 Second Avenue, Seattle, WA 98104-1598. Office hours: 8:00 a.m. - 5:00 p.m., Monday – Friday.

Company Name

Address		City / State / Postal Code	
Authorized Representative / Title	Signature	Phone	Fax
Company Contact / Title	Email	Phone	Fax
Delivery guaranteed: <input type="checkbox"/> Yes <input type="checkbox"/> No	Days after order:	Prompt Payment Discount Terms: _____%-____Days, Net ____	

This Invitation to Bid will be provided in alternative formats such as Braille, large print, audiocassette or computer disk for individuals with disabilities upon request.

SECTION 5 - (REV.1) TECHNICAL SPECIFICATIONS FOR ONE OR MORE HYDRAULIC EXCAVATORS

The following specification is intended to fully describe a diesel powered, track mounted excavator. Excavator shall be designed for United States markets and for use in the United States. The excavator shall have a fully equipped minimum operating weight of 36,700 lbs. (without the use of ballast added to meet the minimum weight specification). Maximum transport width shall be 8’10”. Stick length shall be **9’6”** with hydraulic controlled progressive link thumb.

Offerors shall respond to each specification with a check (✓) mark to indicate compliance with the item specified. Any deviations from the specifications must be described in detail. Failure to respond to each specification shall result in disqualification of the Offeror.

MINIMUM SPECIFICATIONS

- A. ENGINE:

1. Engine shall be four cylinders with displacement not less than **238** cu. in.

2. Minimum **106** net horsepower

3. Minimum 300 Ft-lb. torque at 1400 RPM, state offered

4. A system shall be provided for cold weather starting.

5. Dual stage dry type air cleaner with locking restriction gauge

6. Suction type cooling fan with a 360-degree, fully enclosed fan guard shall be provided.

7. Off-level engine lubrication capability shall be **70% @ 31 degree**.

- B. MANUFACTURERS DATA:

1. Minimum track length shall be **12’9”**, state length offered

2. Minimum ground clearance shall be **17”**, state distance between level ground and lowest sections of under car body

3. Minimum reach at ground level shall be 29’8”, state offered

4. Maximum tailswing radius shall be **8’2”**, state offered

5. Excavator shall be configured with minimum **9’6”** stick and a 16’10” boom

6. 28” track shoes shall be provided

- C. UNDERCARRIAGE:

1. Track frame shall have at least **seven (7)**, rollers and **two (2)**, carriers on each side. These shall be sealed and lubricated. Tracks shall be adjusted hydraulically

2. Track frames shall be welded construction using automated welding processes for precision welds and quality control. Frames shall be

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welded to the machines center section for maximum rigidity and stress resistance

3. Final drive mechanism shall be fully hydrostatic
4. Wet disc brakes on final drive input shafts. Spring applied and hydraulically released brakes that apply automatically when travel controls are released
5. Track guides, full length rock guards and hydraulically adjustable idler
6. Tracks supplied shall be best factory available for urban use
7. Center guard, under house

D. CONTROLS:

1. Two (2), joystick controls to operate boom, stick, bucket and swing per SAE J1777 standards. Joysticks shall be movable in relation to the seat for operator comfort
2. Joystick controls shall be pilot pressure operated to control primary function valves. Joystick shall provide feathering flow and linear motion to their respective functions
3. Steering controls shall be two (2), combination foot pedal – hand lever mechanisms that attach to pilot operated valves for track forward and reverse motions. Each control independently operates each track
4. The following controls and panels shall be located conveniently for the operator and shall include at least the following: ignition key, engine tachometer, engine power levels or work mode, travel speed, windshield wiper/washer, heater/AC controls
5. Electronic engine under speed control shall be provided to manage the transfer of power from the engine to the hydraulic system for improved engine power utilization and fuel efficiency.
6. All wire harnesses shall be encased in nylon mesh bindings.
7. An optional cold weather starting system shall be provided, including two (2), maintenance-free batteries having not less than 900 cold cranking amps.

E. HYDRUALICS:

1. A minimum of two (2), variable displacement, axial piston pumps shall provide hydraulic power to the main functions: Boom, swing, swing and travel. A separate gear pump **or bleed valve** shall be used to operate the pilot pressure circuit. **Unit shall be delivered with Bio-based biodegradable hydraulic oil in system.**
2. Fully hydrostatic track drive is required, one (1), variable speed motor shall be used for each track
3. Fixed displacement, axial piston swing motor is required
4. Minimum ten-micron filtration is required, full flow filter(s) with by-pass and by-pass indicator

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5. Engine and hydraulic pumps shall be shielded to reduce the possibility of oil contacting hot engine parts in the event of a hydraulic line rupture. _____
6. Hydraulic system shall be controlled so that the engine output is matched to the level of effort demanded from the hydraulic system. This feature shall be manually overridden _____
7. Automatic engine idle RPM shall be maintained whenever hydraulic loads are not required _____
8. The hydraulic system shall be capable of providing consistent pressure and flow to all functions for all levels of demand _____
9. All hydraulic functions shall be operable and operate smoothly without hesitation or jerkiness during all phases of equipment operation _____
10. Shall be equipped with maximum capacity hose offered by manufacturer _____

F. SWING MECHINISM:

1. A multiple planetary gearbox driven by an axial piston hydraulic motor is required _____
2. Induction hardened ring and pinion gears _____
3. Swing mechanism braking is required which automatically applies whenever the swing control is released or when loads are handled on slopes _____

G. ATTACHMENTS:

1. Heavy wall steel, minimum 4" x 4" square tube, side **and front of cab** guards shall be provided to reduce damage to sides and doors when working in tight quarters (machine width shall be **9'** or less). _____
2. Vandalism protection shall include engine\radiator compartment covers, cab door locks, battery covers, toolboxes, fuel filler and cab. Shall include convenient, lockable storage on machine. _____
3. Four (4), extra sets of keys for each unit ordered _____
4. Tow hooks or pins on car body, two (2), minimum, one (1), on each end of underbody _____
5. Maximum access steps and machine access structure _____
6. Both left-hand and right-hand boom-mounted work lights shall be provided. _____
7. Factory-installed air conditioner shall be provided. _____
8. AM/FM radio shall be provided. _____
9. Hydraulics controls and lines shall be provided capable of operating the thumb **described in item 11 below**. _____
10. PSM mechanical bucket quick-coupler shall be provided. _____

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11. **PMS 36"** quick-coupler style "**Clamp**" bucket/**thumb combo** with lifting eye installed on back of bucket shall be provided. Heaviest duty available digging bucket shall have double-bit (**split finger scarifier type**) replaceable teeth.

12. Thumb teeth shall not interfere with bucket teeth in the closed position

H. CAB:

1. A fully adjustable suspension seat with 3" retractable seat belt shall be provided (best available).
2. A hydraulic oil temperature gauge shall be provided.
3. Upper windshield wiper shall be pillar-mounted with no wires to disconnect before raising the window.
4. An optional washer/wiper shall be provided for the bottom portion of the two-piece windshield or reversed slope window for improved visibility to the trench.
5. A skylight or opening hatch shall be provided for improved overhead visibility, supported by gas struts when it is open.
6. Individually controllable vents shall be provided for ventilation.
7. The rear window shall be easily removable for escape in the event of emergency.
8. Viscous cab mounts shall be provided to absorb vibration and sound more efficiently.
9. Cab and window protection, such as would be provided in a logging application, shall be provided to protect operator from objects entering the cab interior. **It shall be configured with bolt-on frame and 2" square heavy woven wire screen over front cab glass (upper and lower).**

I. MAINTENANCE:

1. Track tension adjuster shall provide a method to bleed pressure from adjuster if valve becomes plugged.
2. Two (2), remote grease fittings for the swing bearing shall be in the same location at the front of the machine for ease of maintenance.
3. Two (2), maintenance-free batteries shall be provided.
4. Pressure taps for hydraulic system diagnosis shall be provided in four (4), locations: one (1), pilot, two (2), mains, and one (1), power shift.
5. Anti-skid, combination sandpaper and punched plate shall cover the entire normal walking surface of the upper structure for excellent skid resistance.

J. PERFORMANCE:

1. Not less than two (2), main implement pumps shall be provided.

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2. Total flow from the implement pump(s) shall be not less than **72** gallons per minute. _____
3. Lift capacity at 10 ft. over the front at ground level shall be not less than **10,400** lbs. (**9'6"** stick and 24" shoes). _____
4. Lift capacity at 10' over the side at ground level shall be not less than 10,400 lbs. (**9'6"** stick and 24" shoes). _____
5. Maximum drawbar pull shall be not less than **28,775** lbs. _____
6. Bucket force shall be not less than 23,200 lbs. _____
7. Stick force shall be not less than 16,700 lbs. with a **9'6"** stick _____

K. WARRANTY:

1. Entire machine shall be covered by a twelve (12) month parts and labor warranty. Powertrain shall be warranted for **five (5)** years or 5,000 hours. _____
2. A full time complete parts and service facility offering factory authorized service and a parts supply adequate to perform complete repairs is required. Facility shall be within a fifty (50) mile radius of the King County Department of Transportation, Fleet maintenance facility at:
155 Monroe Ave NE
Renton, WA 98056 _____
3. Quote price for factory available warranty programs, above and beyond the base warranty, supply printed literature with bid. _____
4. Inspection of offeror's parts and service facility may be required before bid award. _____
5. Warranty shall begin on date unit is placed into service, not delivery date. Contractor will be notified. _____
6. Copies of all applicable warranties shall be submitted with bid package. Additional data entry form shall be completed and delivered with equipment. _____
7. If unit(s) is sent to dealer or recalled and cannot be repaired within two (2), working days a loaner of comparable size shall be supplied to King County at no charge _____

L. GENERAL:

1. Only new models in current production which are cataloged by the manufacturer, and for which printed literature and specifications are available, are acceptable. _____
2. A performance demonstration may be required before bid award. Performance demonstration will be of unit per basic specifications. _____
3. All standard equipment and components necessary for operation and normally supplied shall be furnished, even if not called out in specifications. _____

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4. All equipment shall be new. Used, demonstration, rebuilt or remanufactured equipment is unacceptable. All items requested in the specifications shall be factory available, no aftermarket equipment will be accepted. _____
5. The equipment shall have full dealer preparation and be ready for service when delivered. _____
6. Operators training covering familiarization and operation of all standard and optional features as unit(s) ordered are equipped shall be provided. Date and location shall be specified when equipment is accepted. _____
7. Hydraulic system shall contain Bio-Based Biodegradable hydraulic oil at the time of delivery. Documentation shall be provided at time of delivery. _____
8. The equipment will not be considered "delivered" and payment will not be processed without the following items:
 - a. Title application for each unit delivered _____
 - b. Manufacturers statement of origin for each unit delivered _____
 - c. Original billing invoice _____
 - d. Certified weight slip for machine _____
 - e. Two (2), lube chart per order _____
 - f. One (1), "**complete**" bound and labeled technical service manual per order, CD format preferred _____
 - g. One (1), bound and labeled parts manual per order, CD preferred _____
 - h. Two (2), operators manual per unit _____
 - i. One (1), complete set of filters shall be supplied with each unit ordered. _____
 - j. One (1), list of all consumable maintenance items including description and part numbers. List shall include filters, belts, wiper blades and cooling system hoses applicable to units ordered _____

M. TRADE-IN:

1. King County desires to trade-in the following equipment. All bidders must submit a price for the equipment. If King County deems it to be in the County's best interest to retain the equipment and not accept the trade-in offer, it may do so. If the trade-in offer is accepted, it will be used to determine award to the lowest responsive bid for the new equipment. To arrange an appointment to view the Trade-in, contact Bob Toppen at 206-296-8159.

One (1), 1996 Caterpillar 312BL with approximately 7500 hours
Serial # 06GK01630.

Trade-in amount offered

\$ _____

SECTION 6 - (REV.1) PRICING

Item No.	Est. Quantity	Description	Unit Price	Total Price
1.	1 ea	Excavator, Track Mounted, Diesel Powered, 36,700 lb min. Operating Weight Yr/Make/Model: _____ _____	\$ _____	\$ _____
2.	1 ea	Trade-In, 1996 Caterpillar 312BL Excavator	(\$ _____)	(\$ _____)
Total Bid Price			\$ _____	

Options (All Options must be quoted)

1. Heaviest duty 60" ditching bucket. Bucket shall be designed so tips of thumb meet the bucket cutting edge when closed. \$ _____
2. Hydraulic operated bucket quick coupler \$ _____
3. Hydraulics to end of boom suitable for operating rotary type cutter head, shall include all lines, couplers, valving and hydraulic pump synchronization to operate head from operators cab. **Hydraulic valving shall be comprised of two (2), electrically actuated priority flow control valves connecting both main hydraulic pumps to "maximize" available excavator hydraulics for peak cutter performance.** \$ _____
4. Rotary disc style brush cutter with extreme duty mulching disc and replaceable cutting bits. Unit shall have a 36 in diameter cutting disc with high torque bent axis hydraulic motor rated at 4000 PSI. Unit shall be manufactured with a reinforced shroud and solid steel shirt ring and shall weigh 1100 lbs. Shall be able to quick couple unit to excavator. \$ _____
5. Deduction to downsize excavator to a 120 class machine, shall include all above comparable specifications for the smaller excavator \$ _____